

# VIENTO 1280

1280 X 1024, 10-MICRON LWIR CAMERA



Viento 1280 is a high-definition uncooled long-wave infrared (LWIR) camera that features a unique 1280x1024 microbolometer sensor with a 10-micron pixel pitch. The microbolometer focal plane array is based upon Leonardo DRS EOIRS Tenum 1280M LWIR sensor core.

- + 1280 x 1024 high-resolution, 10-micron sensor
- + Uncooled VOx microbolometer
- + 30 Hz frame rate
- + <50 millikelvin NETD
- + 25 mm, 35 mm, and no-lens options available

## DETAILS

The Viento 1280 infrared camera offers very high sensitivity uncooled infrared FPA performance in a compact, SWaP-optimized package designed for development environments in applications such as unmanned airborne vehicles, situational awareness on ground vehicles, unmanned ground vehicles, and other infrared camera applications requiring resolution four times greater than traditional VGA resolution sensors.

Viento 1280 offers USB 3.0 digital outputs compatible with UVC standards. A 14-bit digital video stream is offered on an OEM board-to-board connector, or via an adapter board with a USB-C connector. A full support package offers reference designs and sample code for full implementation of the sensor's <50 millikelvin sensitivity. The sensor's trigger signals are made available for synchronous operation of one or more sensors.



## APPLICATIONS

- + Visualize hydrocarbon gases
- + Quickly survey large areas
- + Aerial/ground systems
- + Around-the-clock surveillance
- + Designed for integrators
- + Image from a safe distance
- + Manned/unmanned systems
- + Meet EPA emissions requirements, reduce fines





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EXPORT CLASSIFICATION: DUAL USE

## FEATURE SPECS

### DETECTOR



Detector Type	Uncooled VOx Microbolometer
Array Format	1280 x 1024
Pixel Pitch	10 Micron
Spectral Response	LWIR
Frame Rate	30 Hz
Bit Depth	14-bit
NETD	<60 mK

### ENVIRONMENTAL



Size (L x W x H)	No lens: 47 x 65 x 60 mm 12.8 mm: 75 x 65 x 60 mm 25 mm: 70 x 65 x 60 mm 35 mm: 77 x 65 x 60 mm
Weight	No lens: 115g 12.8 mm: 194g 25 mm: 163g 35 mm: 220g
Input Voltage	Powered via USB
Power Dissipation	3.0W
Operating Temperature	0°C to +70°C
Mounting	¼-20 Tripod mount



Tenum 1280M core

### SYSTEM



Digital Video Output	USB3.0 UVC (14-bit)
NUC	1-point w/ shutter or through lens
Camera Control/Command Interfaces/System Control	Serial commands via USB

### LENS OPTIONS



FOV (H° x V°)	12.8 mm: 59° x 46.5° 25 mm: 28.7° x 23.1° 35 mm: 20.7° x 16.7°
F#	12.8 mm: 1.4 25 mm: 1.2 35 mm: 1.2

